

Title (en)  
IMPROVED HEARING APPARATUS

Title (de)  
VERBESSERTES HÖRGERÄT

Title (fr)  
PROTHESE AUDITIVE AMELIOREE

Publication  
**EP 0567535 B1 20030813 (EN)**

Application  
**EP 92903788 A 19920116**

Priority  
• US 64273591 A 19910117  
• US 9200380 W 19920116

Abstract (en)  
[origin: WO9213430A1] A hearing aid is configured and dimensioned so as to be inserted past the cartilaginous part (30) of the external auditory canal (external acoustic meatus) and into the bony part (32) of the external auditory canal. The outer portion of the hearing aid fits snugly into the cartilaginous part (30) of the external auditory canal; the microphone (14) is located at the acoustic focus (36) of the ear such that the natural sound and direction gathering functions of the human outer ear are fully utilized by the hearing aid. The inner portion of the hearing aid is articularly joined to the outer portion to enable the inner portion to be positioned past the sigmoid portion (42) of the external auditory canal and forms a soft covered, elongated speaker (12) which fits within part of the bony part (32) of the external auditory canal, without causing discomfort to the human user.

IPC 1-7  
**H04R 25/00**

IPC 8 full level  
**H04R 19/01** (2006.01); **H04R 25/00** (2006.01); **H04R 25/02** (2006.01)

CPC (source: EP US)  
**H04R 19/016** (2013.01 - EP US); **H04R 25/502** (2013.01 - EP US); **H04R 25/554** (2013.01 - EP US); **H04R 25/558** (2013.01 - EP US); **H04R 25/656** (2013.01 - EP US); **H04R 25/356** (2013.01 - EP US); **H04R 25/456** (2013.01 - EP US); **H04R 25/654** (2013.01 - EP US); **H04R 2225/025** (2013.01 - EP US); **H04R 2225/51** (2013.01 - EP US); **H04R 2420/07** (2013.01 - EP US); **H04R 2460/13** (2013.01 - EP US); **H04R 2460/15** (2013.01 - EP US)

Cited by  
US8391522B2; US8391523B2; US10783996B2; US11381924B2

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IT LI LU MC NL SE

DOCDB simple family (publication)  
**WO 9213430 A1 19920806**; AT E247369 T1 20030815; AU 1189592 A 19920827; BR 9205478 A 19940301; CA 2100773 A1 19920718; DE 69233156 D1 20030918; DE 69233156 T2 20040708; DK 0567535 T3 20031208; EP 0567535 A1 19931103; EP 0567535 A4 19950308; EP 0567535 B1 20030813; JP H06506572 A 19940721; US 2001007050 A1 20010705; US 5390254 A 19950214; US 6041129 A 20000321

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**US 9200380 W 19920116**; AT 92903788 T 19920116; AU 1189592 A 19920116; BR 9205478 A 19920116; CA 2100773 A 19920116; DE 69233156 T 19920116; DK 92903788 T 19920116; EP 92903788 A 19920116; JP 50458792 A 19920116; US 4987593 A 19930419; US 59944596 A 19960118; US 78058401 A 20010209